

11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244 East 11115 Montgomery, Suite B, Spokane, WA 99206-4776 9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711

(425) 420-9200 FAX 420-9210 (509) 924-9200

)24-9290 (503) 906-9200 FAX 906-9210 (541) 383-9310 FAX 382-7588

CHAIN OF CUSTODY REPORT

Work Order # M1 () 6046

CLIENT: BRSTO						Т								<i>y</i> 1 1x	Olu	101 11.					
DATOTOL				INVOICE TO:							TURNAROUND REQUEST in Business Days*										
REPORT TO: AT THE	KKKM	AWET	EK			DK	BRISTOL						Organic & Inorganic Analyses								
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8.01AMHV2085L	6/15/01	1025	/													5	1				-
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541.383.9310 fax 541.382.7588

6 December, 2001

Anne Kranawetter Bristol Environmental & Engineering 2000 W International Airport C#1 Anchorage, AK 99502-1116

RE: Amchitka

Enclosed are the results of analyses for samples received by the laboratory on 06/15/01 10:20. If you have any questions concerning this report, please feel free to contact me.

This report was recreated from a previously issued final report in order to provide an electronic copy. The final report used for these electronic copies may have been previously issued as an amended report due to client requested changes to sample names, etc. No data has changed since submission of the previously issued final, or amended, report.

Sincerely,

Stephen Wilson

Environmental Group Leader

1112

Work Orders included in this report:

M106045



Anchorage, AK 99502-1116

Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-9223

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Bristol Environmental & Engineering Project: Amchitka 2000 W International Airport C#1 Project Number: 21090

Reported: 06/16/01 11:34

Project Manager: Anne Kranawetter

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
01AMHV201SL	M106045-01	Soil	06/15/01 09:50	06/15/01 10:20
01AMHV202SL	M106045-02	Soil	06/15/01 09:55	06/15/01 10:20
01AMHV203SL	M106045-03	Soil	06/15/01 10:00	06/15/01 10:20
01AMHV204SL	M106045-04	Soil	06/15/01 10:05	06/15/01 10:20
01AMHV205SL	M106045-05	Soil	06/15/01 10:10	06/15/01 10:20
01AMHV206SL	M106045-06	Soil	06/15/01 10:15	06/15/01 10:20
01AMHV207SL	M106045-07	Soil	06/15/01 10:20	06/15/01 10:20
01AMHV208SL	M106045-08	Soil	06/15/01 10:25	06/15/01 10:20
01AMHV209SL	M106045-09	Soil	06/15/01 10:30	06/15/01 10:20
01AMHV210SL	M106045-10	Soil	06/15/01 10:35	06/15/01 10:20
01AMHV211SL	M106045-11	Soil	06/15/01 10:40	06/15/01 10:20

C. O. C. #86

North Creek Analytical - Mobile Lab



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Bristol Environmental & Engineering 2000 W International Airport C#1

Project: Amchitka
Project Number: 21090

Reported:

Anchorage, AK 99502-1116

Project Manager: Anne Kranawetter

06/16/01 11:34

Hydrocarbon Identification per NW-TPH Methodology North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilutior	n Method	Prepared	Analyzed	Batch	Notes				
01AMHV201SL (M106045-01) Soil					Sampled: 06	/15/01 Rece	eived: 06/15/	01					
Gasoline Range Hydrocarbons	ND	9.63	mg/kg	1	NWTPH HCI	D 06/15/01	06/15/01	0106049					
Diesel Range Hydrocarbons	241	24.1	"	"	"	"	"	"					
Heavy Oil Range Hydrocarbons	ND	48.2	"	"	"	"	"	"					
Surr: 1-Chlorooctadecane	113 %	50-150											
01AMHV202SL (M106045-02) Soil				Sampled: 06/15/01 Received: 06/15/01									
Gasoline Range Hydrocarbons	ND	9.61	mg/kg	1	NWTPH HCI	D 06/15/01	06/15/01	0106049					
Diesel Range Hydrocarbons	241	24.0	"	"	"	"	"	"					
Heavy Oil Range Hydrocarbons	ND	48.0	"	"	"	"	"	"					
Surr: 1-Chlorooctadecane	103 %	50-150											
01AMHV203SL (M106045-03) Soil					Sampled: 06	/15/01 Rece	eived: 06/15/	01					
Gasoline Range Hydrocarbons	ND	9.64	mg/kg	1	NWTPH HCI	D 06/15/01	06/15/01	0106049					
Diesel Range Hydrocarbons	746	24.1	"	"	"	"	"	"					
Heavy Oil Range Hydrocarbons	ND	48.2	"	"	"	"	"	"					
Surr: 1-Chlorooctadecane	111 %	50-150											
01AMHV204SL (M106045-04) Soil				Sampled: 06/15/01 Received: 06/15/01									
Gasoline Range Hydrocarbons	ND	9.70	mg/kg	1	NWTPH HCI	D 06/15/01	06/15/01	0106049					
Diesel Range Hydrocarbons	179	24.2	"	"	"	"	"	"					
Heavy Oil Range Hydrocarbons	ND	48.5	"	"	"	"	"	"					
Surr: 1-Chlorooctadecane	101 %	50-150											
01AMHV205SL (M106045-05) Soil					Sampled: 06	/15/01 Rece	eived: 06/15/	01					
Gasoline Range Hydrocarbons	ND	9.97	mg/kg	1	NWTPH HCI	D 06/15/01	06/15/01	0106049					
Diesel Range Hydrocarbons	160	24.9	"	"	"	"	"	"					
Heavy Oil Range Hydrocarbons	ND	49.9	"	"	"	"	"	"					
Surr: 1-Chlorooctadecane	109 %	50-150											

North Creek Analytical - Mobile Lab



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Bristol Environmental & Engineering 2000 W International Airport C#1

Project: Amchitka
Project Number: 21090

Reported: 06/16/01 11:34

Anchorage, AK 99502-1116

Project Manager: Anne Kranawetter

Hydrocarbon Identification per NW-TPH Methodology North Creek Analytical - Mobile Lab

			,								
Analyte	Result	Reporting Limit	Units	Dilutior	n Method	Prepared	Analyzed	Batch	Notes		
01AMHV206SL (M106045-06) Soil					Sampled: 06/1	.5/01 Rece	eived: 06/15/	01			
Gasoline Range Hydrocarbons	ND	10.2	mg/kg	1	NWTPH HCID	06/15/01	06/15/01	0106049			
Diesel Range Hydrocarbons	399	25.5	"	"	"	"	"	"			
Heavy Oil Range Hydrocarbons	134	51.0	"	"	"	"	"	"			
Surr: 1-Chlorooctadecane	111 %	50-150									
01AMHV207SL (M106045-07) Soil					Sampled: 06/1	.5/01 Reco	eived: 06/15/	01			
Gasoline Range Hydrocarbons	ND	10.3	mg/kg	1	NWTPH HCID	06/15/01	06/15/01	0106049			
Diesel Range Hydrocarbons	556	25.8	"	"	"	"	"	"			
Heavy Oil Range Hydrocarbons	ND	51.7	"	"	"	"	"	"			
Surr: 1-Chlorooctadecane	115 %	50-150									
01AMHV208SL (M106045-08) Soil					Sampled: 06/1	.5/01 Reco	eived: 06/15/	01			
Gasoline Range Hydrocarbons	ND	9.68	mg/kg	1	NWTPH HCID	06/15/01	06/15/01	0106049			
Diesel Range Hydrocarbons	247	24.2	"	"	"	"	"	"			
Heavy Oil Range Hydrocarbons	ND	48.4	"	"	"	"	"	"			
Surr: 1-Chlorooctadecane	103 %	50-150									
01AMHV209SL (M106045-09) Soil					Sampled: 06/15/01 Received: 06/15/01						
Gasoline Range Hydrocarbons	ND	10.3	mg/kg	1	NWTPH HCID	06/15/01	06/15/01	0106049			
Diesel Range Hydrocarbons	992	25.8	"	"	"	"	"	"			
Heavy Oil Range Hydrocarbons	ND	51.6	"	"	"	"	"	"			
Surr: 1-Chlorooctadecane	117 %	50-150									
01AMHV210SL (M106045-10) Soil					Sampled: 06/1	.5/01 Reco	eived: 06/15/	01	R-05		
Gasoline Range Hydrocarbons	ND	202	mg/kg	1	NWTPH HCID	06/15/01	06/15/01	0106049			
Diesel Range Hydrocarbons	4440	504	"	"	"	"	"	"			
Heavy Oil Range Hydrocarbons	2370	1010	"	"	"	"	"	"			
Surr: 1-Chlorooctadecane	89.4 %	50-150									

North Creek Analytical - Mobile Lab



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Bristol Environmental & Engineering Project: Amchitka 2000 W International Airport C#1 Project Number: 21090

Reported: 06/16/01 11:34

Project Manager: Anne Kranawetter

Hydrocarbon Identification per NW-TPH Methodology North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	n Method	Prepared	Analyzed	Batch	Notes
01AMHV211SL (M106045-11) Soil					Sampled: 06/	15/01 Rece	eived: 06/15/	01	
Gasoline Range Hydrocarbons	ND	9.87	mg/kg	1	NWTPH HCIE	06/15/01	06/15/01	0106049	
Diesel Range Hydrocarbons	526	24.7	"	"	"	"	"	"	
Heavy Oil Range Hydrocarbons	ND	49.4	"	"	"	"	"	"	
Surr: 1-Chlorooctadecane	116 %	50-150	•			•	•	•	•

North Creek Analytical - Mobile Lab

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Bristol Environmental & Engineering 2000 W International Airport C#1

Project: Amchitka
Project Number: 21090

Reported:

Anchorage, AK 99502-1116

Project Manager: Anne Kranawetter

06/16/01 11:34

Hydrocarbon Identification per NW-TPH Methodology - Quality Control

North Creek Analytical - Mobile Lab

		Reporting		Spike	Source		%REC		RPD		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	

Batch 0106049 - TPH-HCID (WA)

DI 1 (010(040 DI 171)		B 10 4 1 106/15/01						
Blank (0106049-BLK1)				Prepared &	Analyzed: 06/1:	5/01		
Gasoline Range Hydrocarbons	ND	10.0	mg/kg					
Diesel Range Hydrocarbons	ND	25.0	"					
Heavy Oil Range Hydrocarbons	ND	50.0	"					
Surr: 1-Chlorooctadecane	9.82		"	10.0	98.2	50-150		

North Creek Analytical - Mobile Lab



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Bristol Environmental & Engineering Project: Amchitka 2000 W International Airport C#1 Project Number: 21090

Reported: 06/16/01 11:34

Project Manager: Anne Kranawetter

Notes and Definitions

R-05 Reporting limits raised due to dilution necessary for analysis.

DET Analyte DETECTED

Anchorage, AK 99502-1116

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis. MRLs are adjusted if %Solids are less than 50%.

wet Sample results reported on a wet weight basis (as received)

RPD Relative Percent Difference

North Creek Analytical - Mobile Lab

Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
			Report recreated from: \\sisters\elmnt\Report\M106045 FINAL 06 16 01 1134.mdb
			Default Report (not modified)
M106045-10	NW-HCID mod		R-05